

Title (en)

METHOD AND SYSTEM FOR DETECTION OF REMOTE CONTROL ERRORS IN WIND FARMS

Title (de)

VERFAHREN UND SYSTEM ZUR ERKENNUNG VON FERNBEDIENUNGSFEHLERN BEI WINDPARKS

Title (fr)

MÉTHODE ET SYSTÈME DE DÉTECTION D'ERREURS À DISTANCE DANS DES PARCS ÉOLIENS

Publication

EP 3457231 A1 20190320 (EN)

Application

EP 17191048 A 20170914

Priority

EP 17191048 A 20170914

Abstract (en)

Method and system for detection of a remote control error in a wind farm, wherein the wind farm is connected to a human machine interface, HMI, via a supervisory control and data acquisition, SCADA, network for remote control and monitoring, wherein at least one camera is provided at the wind farm, the wind farm comprises at least one of turbines, and all of the turbines of the wind farm are within the field of view of the at least one camera, wherein the camera is connected to a main controller at the human machine interface via a network different and independent from the SCADA network, wherein the method comprises capturing video data from the at least one camera, processing, in an image processing unit, the captured video data and extracting the rotational speed for each turbine of the wind farm based on the processed video data, transmitting the extracted rotational speed of each turbine to the main controller, performing in a plausibility check unit, preferably at the main controller, a plausibility check with operational data received via the SCADA network based on the extracted rotational speed for each turbine, and transmitting an error signal to the human machine interface based on the result of the plausibility check.

IPC 8 full level

G05B 19/00 (2006.01); **F03D 7/04** (2006.01); **F03D 17/00** (2016.01); **G06Q 10/00** (2012.01); **G06Q 50/06** (2012.01)

CPC (source: EP)

F03D 7/04 (2013.01); **F03D 17/00** (2016.05); **G05B 19/0428** (2013.01); **G05B 23/0216** (2013.01); **G06Q 10/00** (2013.01); **G06Q 50/06** (2013.01); **F05B 2240/96** (2013.01); **F05B 2270/327** (2013.01); **F05B 2270/8041** (2013.01); **G05B 2219/2619** (2013.01); **Y02E 10/72** (2013.01)

Citation (applicant)

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Citation (search report)

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- [I] EP 3163074 A1 20170503 - NTN TOYO BEARING CO LTD [JP]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3457231 A1 20190320

DOCDB simple family (application)

EP 17191048 A 20170914